

	Type	L #	Hits	Search Text	Dbs	Time Stamp	Comments	Error or Definition	Errors
1	BRS	L1	403	TFPI	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/12/0 4 06:59			0
2	BRS	L2	50	TFPI-2	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/12/0 4 06:59			0
3	BRS	L3	68	kunitz same (domain adj 1)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/12/0 4 07:00			0
4	BRS	L4	20	kunitz same (domain adj 2)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/12/0 4 07:00			0
5	BRS	L5	68	(1 or 2) same (3 or 4)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/12/0 4 07:01			0
6	BRS	L6	4	5 same (chimeric or fusion)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/12/0 4 07:19			0
7	BRS	L7	4175	glycosaminoglycan	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/12/0 4 07:19			0
8	BRS	L8	314	heparin adj binding adj domain	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/12/0 4 07:20			0
9	BRS	L9	342	protease adj nexin\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/12/0 4 07:20			0
10	BRS	L10	0	6 same (7 or 8 or 9)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/12/0 4 07:20			0

=> d his

(FILE 'HOME' ENTERED AT 07:23:20 ON 04 DEC 2002)

FILE 'MEDLINE, CAPLUS, BIOSIS, EMBASE, SCISEARCH, AGRICOLA'  
ENTERED AT  
07:23:45 ON 04 DEC 2002

L1 3347 S TFPI  
L2 221 S TFPI-2  
L3 42 S KUNITZ (P) (DOMAIN 1)  
L4 32 S KUNITZ (P) (DOMAIN 2)  
L5 30 S (L1 OR L2) (P) (L3 OR L4)  
L6 2 S L5 (P) (CHIMERIC OR FUSION)  
L7 2 DUPLICATE REMOVE L6 (0 DUPLICATES REMOVED)  
L8 70335 S GLYCOSAMINOGLYCAN  
L9 2924 S HEPARIN BINDING DOMAIN  
L10 728 S PROTEASE NEXIN-1  
L11 3 S L9 (P) L10  
L12 1 S L7 (P) (L8 OR L11)

=> log y

FILE 'HOME' ENTERED AT 07:23:20 ON 04 DEC 2002

=> file medline caplus biosis embase scisearch agricola	SINCE FILE	TOTAL
COST IN U.S. DOLLARS	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'MEDLINE' ENTERED AT 07:23:45 ON 04 DEC 2002

FILE 'CAPLUS' ENTERED AT 07:23:45 ON 04 DEC 2002  
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FILE 'AGRICOLA' ENTERED AT 07:23:45 ON 04 DEC 2002

=> s tfpi  
L1 3347 TFPI

=> s tfpi-2  
L2 221 TFPI-2

=> s kunitz (p) (domain 1)  
L3 42 KUNITZ (P) (DOMAIN 1)

=> s kunitz (p) (domain 2)  
L4 32 KUNITZ (P) (DOMAIN 2)

=> s (l1 or l2) (p) (l3 or l4)  
L5 30 (L1 OR L2) (P) (L3 OR L4)

=> s l5 (p) (chimeric or fusion)  
L6 2 L5 (P) (CHIMERIC OR FUSION)

=> duplicate remove l6  
DUPLICATE PREFERENCE IS 'CAPLUS, BIOSIS'  
KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n  
PROCESSING COMPLETED FOR L6  
L7 2 DUPLICATE REMOVE L6 (0 DUPLICATES REMOVED)

=> d l7 1-2 ibib abs

L7 ANSWER 1 OF 2 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.  
ACCESSION NUMBER: 2001:340475 BIOSIS  
DOCUMENT NUMBER: PREV200100340475  
TITLE: Chimeric proteins.  
AUTHOR(S): Innis, Michael A.; Creasey, Abba A.  
ASSIGNEE: Chiron Corporation  
PATENT INFORMATION: US 6174721 January 16, 2001  
SOURCE: Official Gazette of the United States Patent and Trademark  
Office Patents, (Jan. 16, 2001) Vol. 1242, No. 3, pp. No  
Pagination. e-file.  
ISSN: 0098-1133.  
DOCUMENT TYPE: Patent  
LANGUAGE: English

AB \*\*\*Chimeric\*\*\* proteins possessing \*\*\*Kunitz\*\*\* -type  
\*\*\*domain\*\*\* \*\*\*1\*\*\* of \*\*\*TFPI\*\*\* - \*\*\*2\*\*\* and  
\*\*\*Kunitz\*\*\* -type \*\*\*domain\*\*\* \*\*\*2\*\*\* of \*\*\*TFPI\*\*\* are  
disclosed, as are muteins of \*\*\*TFPI\*\*\* and \*\*\*TFPI\*\*\* - \*\*\*2\*\*\*  
. Nucleic acid sequences, expression vectors and transformed host cells  
encoding and capable of producing the disclosed \*\*\*chimeric\*\*\*

proteins and muteins are also disclosed. Finally, methods for prevention and treatment of septic shock using the \*\*\*chimeric\*\*\* proteins and muteins are disclosed.

L7 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1996:295080 CAPLUS

DOCUMENT NUMBER: 124:325361

TITLE: Chimeric proteins and muteins of tissue factor pathway inhibitors TFPI and TFPI-2

INVENTOR(S): Innis, Michael A.; Creasey, Alba A.

PATENT ASSIGNEE(S): Chiron Corporation, USA

SOURCE: PCT Int. Appl., 67 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9604378	A2	19960215	WO 1995-US9464	19950725
WO 9604378	A3	19960314		
W: AU, CA, JP, MX				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
US 5589359	A	19961231	US 1994-286521	19940805
US 5563123	A	19961008	US 1995-437841	19950509
US 5696088	A	19971209	US 1995-436175	19950509
CA 2196290	AA	19960215	CA 1995-2196290	19950725
AU 9531500	A1	19960304	AU 1995-31500	19950725
AU 710535	B2	19990923		
EP 776366	A1	19970604	EP 1995-927478	19950725
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
JP 10503375	T2	19980331	JP 1995-506598	19950725
US 6174721	B1	20010116	US 1997-943682	19971014

PRIORITY APPLN. INFO.:

US 1994-286521	A	19940805
US 1995-438184	B1	19950509
WO 1995-US9464	W	19950725

AB \*\*\*Chimeric\*\*\* proteins possessing \*\*\*Kunitz\*\*\* -type  
\*\*\*domain\*\*\* \*\*\*1\*\*\* ot \*\*\*TFPI\*\*\* - \*\*\*2\*\*\* and  
\*\*\*Kunitz\*\*\* -type \*\*\*domain\*\*\* \*\*\*2\*\*\* of \*\*\*TFPI\*\*\* are  
provided, as are muteins of \*\*\*TFPI\*\*\* and \*\*\*TFPI\*\*\* - \*\*\*2\*\*\*.  
Nucleic acid sequences, expression vectors, and transformed host cells  
encoding and capable of producing the disclosed \*\*\*chimeric\*\*\*  
proteins and muteins are also provided. \*\*\*Chimeric\*\*\* proteins were  
constructed with amino acid sequences capable of binding a cell surface  
component (glycosaminoglycan, heparin) such as peptide moieties from  
protease nexin-1, protease nexin-2, antithrombin III, heparin cofactor II,  
protein C inhibitor, platelet factor 4, bovine pancreatic trypsin  
inhibitor, and ghilanten-related inhibitors. The \*\*\*chimeric\*\*\*  
proteins are produced as yeast .alpha.-factor \*\*\*fusion\*\*\* proteins  
for secretion, or alternatively, may be expressed as a ubiquitin  
\*\*\*fusion\*\*\* protein. Potential sites for N-linked glycosylation within  
\*\*\*TFPI\*\*\* (Asn116.fwdarw.Gln, Asn227.fwdarw.Gln) are removed using  
overlapping PCR and mutations och1, mn1, and alg3 are introduced in  
transformed yeast cells to prevent the prodn. of .alpha.-1,6-polymannose  
terminal carbohydrate moieties in the \*\*\*chimeric\*\*\* products.  
Finally, methods for prevention and treatment of septic shock using the  
\*\*\*chimeric\*\*\* proteins and muteins are described.

=> d his

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FILE 'MEDLINE, CAPLUS, BIOSIS, EMBASE, SCISEARCH, AGRICOLA' ENTERED AT  
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L1	3347 S TFPI
L2	221 S TFPI-2
L3	42 S KUNITZ (P) (DOMAIN 1)
L4	32 S KUNITZ (P) (DOMAIN 2)
L5	30 S (L1 OR L2) (P) (L3 OR L4)
L6	2 S L5 (P) (CHIMERIC OR FUSION)

L7 2 DUPLICATE REMOVE L6 (0 DUPLICATES REMOVED)

=> s glycosaminoglycan  
L8 70335 GLYCOSAMINOGLYCAN

=> s heparin binding domain  
L9 2924 HEPARIN BINDING DOMAIN

=> s protease nexin-1  
L10 728 PROTEASE NEXIN-1

=> s l9 (p) l10  
L11 3 L9 (P) L10

=> s l7 (p) (l8 or l11)  
PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH  
FIELD CODE - 'AND' OPERATOR ASSUMED 'L72 (P) '  
PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH  
FIELD CODE - 'AND' OPERATOR ASSUMED 'L78 (P) '  
PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH  
FIELD CODE - 'AND' OPERATOR ASSUMED 'L80 (P) '  
PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH  
FIELD CODE - 'AND' OPERATOR ASSUMED 'L82 (P) '  
L12 1 L7 (P) (L8 OR L11)

=> d his

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L1 3347 S TFPI  
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L11 3 S L9 (P) L10  
L12 1 S L7 (P) (L8 OR L11)

=> log y		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	38.25	38.46
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-0.62	-0.62

STN INTERNATIONAL LOGOFF AT 07:28:12 ON 04 DEC 2002